

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Albuquerque**

Site Summary Level: **Los Alamos National Laboratory**

Project **AL026 / Off-site Source Recovery Program - Def**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0012**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

The purpose of this project is to reduce the potential risk in both the public and private sectors and to contribute to mortgage reduction within the DOE complex. The project involves recovery and management of excess radioactive sources and certain wastes which DOE owns as the result of legacy contracts, loan/lease of radioactive material to institutions, or as a result of radioactive material jointly managed with the Department of Defense (DOD) on various projects. In most cases this material currently resides off-site, outside of DOE direct control. The project addresses DOE's obligation to accept return of this material for appropriate storage and final disposal as required. When these materials finally reside in compliant disposal, the DOE mortgage caused by excess radioactive material without a disposition path will be reduced.

Predecessor Projects: Since the creation of EM there has been one predecessor project within EM and one in DP which have dealt with separate portions of the problem of excess DOE-owned radioactive sources and off-site wastes found within the DOE complex and within public and government institutions outside of DOE operations.

- 1) The Off-Site Waste Program, DOE HQ EM-30
- 2) The Pu-239/Be Neutron Source Acceptance Program (managed by DP-27, through DOE-AL and LANL until FY-1999 when it was transferred to EM-36/AL/WMD).

In FY-1996 EM-30, by memo, consolidated responsibility for GTCC radioactive sealed sources and excess DOE-owned sealed sources (which would be considered Special Case Waste) under EM-36. This new project builds on these previous efforts to address that portion of excess radioactive sealed sources which are DOE-owned and located outside the DOE complex. It will also provide assistance to DOE sites around the complex for the consolidation and management of DOE-owned excess sealed sources. In addition it addresses various legacy radioactive waste found off-site outside of direct DOE control. The project, titled the Off-Site Source Recovery (OSR) Project has been re-focused from previous efforts by DOE-AL/WMD in FY-1999 with the first funding year under the Paths to Closure to be FY-2000. The refocus of the effort will result in more aggressive recovery of DOE-owned sealed sources and wastes and begin the orderly process of accepting, consolidating and eventually disposing of excess radioactive sealed sources located around the DOE complex. The project serves the mortgage reductions goals of Paths to Closure as follows:

- 1) Fulfills and closes-out DOE obligations to accept radioactive material based on contractual commitments and/or agreements with institutions and government agencies.
- 2) Recovers DOE legacy radioactive sources and wastes which are outside of direct DOE control.
- 3) Consolidates and disposes legacy radioactive sources and waste where disposal is available.
- 4) Assists DOE sites by positioning excess radioactive sealed sources.

SCOPE

The Scope of the OSR-D has been planned to address approximately five ongoing off-site waste recovery actions, greater than 20 Loan/Lease agreements where radioactive material has become excess, and the acceptance and consolidation of approximately 2300 individual radioactive sources

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when declared excess to DOE needs. The project will also assist in the identification, consolidation, and certification of various Waste Isolation Pilot Plant (WIPP) eligible sealed source materials. It will prepare for and address most of this mission between FY-1999 and FY-2002, after which time sufficient infrastructure will be established to complete the remaining mission without the need for a direct annual DOE appropriation. The project will provide a service to other DOE sites and facilities on a funds transfer basis. This project will share capabilities and resources with the OSR project PBS AL-RSRP/LANL.

TECHNICAL APPROACH

Off-site legacy radioactive material and sources are identified and recovered from around the U.S. This material is relocated to the most appropriate DOE site with compliant storage, treatment facilities, and/or disposal capability. A large part of this effort involves the identification and resolution of complex legal and regulatory issues associated with off-site legacies prior to action, which transports material to a compliant DOE site. A second part of the work involves the potential necessity for treatment, processing, or re-configuration or physical form changes necessary to meet requirements of the receiving site. In the case of sealed source materials, these are managed in parallel with acceptance of licensed materials under PBS AL-RSRP/LANL. The approach with sealed source material is consolidation of accepted sources into shielded multi-function containers to minimize the volume. The containers will meet the Waste Acceptance Criteria (WAC) for the WIPP and the contents will have undergone a WIPP equivalent characterization, physical assay, and QA certification process. The resulting form is a rigorously packaged material that can be made available for recovery and reuse if a need is established. The package can also serve as a well characterized waste form that can support performance objectives and performance assessment analysis for disposal development for waste streams without identified disposal paths. Qualified material can be disposed of at the WIPP.

It is estimated that the identified inventory of actinide-bearing sealed sources within the DOE complex would be packaged in a total of approximately 160 multipurpose containers. Of this total, it is not currently known what fraction will be WIPP eligible. Non-actinides are not now planned for receipt at Los Alamos National Laboratory (LANL), although LANL technical staff and technical support contractors working under LANL, will coordinate receipt, disposition, and management of non-actinide sources with DOE and other operations sites across the DOE complex. The non-actinide sources figure heavily in the OSR-D Project with respect to the acceptance and management of excess DOD Radioisotope Thermal-electric Generators (RTGs) containing a total of greater than 2 mega Curie's of Sr-90.

Materials accepted for management under this program are accounted for in the Analysis and Visualization System (AVS) as waste streams and are defined as follows:

1. MLLW - Disposal: DOE-owned Mixed Low Level Waste accepted, treated and disposed, resulting from off-site source recovery actions as assigned.
2. LLW - Accepted for Storage, (Greater than Class C): DOE-owned sealed sources and perhaps other excess-unwanted material containing non-TRU isotopes which are accepted for management under OSR. An example is a Sr-90 SNAP RTG where the isotope remains the property of DOE from an agreement with DOD.
3. LLW - Disposal, (Greater Than Class C): Actions involving disposal of DOE-owned sealed sources and perhaps other excess-unwanted material containing non-TRU isotopes which have been accepted for management under OSR. An example is a Sr-90 SNAP RTG where the isotope remains the property of DOE from an agreement with DOD.

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4. LLW - Disposal: DOE-owned Low Level Waste accepted and disposed resulting from off-site recovery actions as assigned.

5. TRU - Defense: Sealed sources and perhaps other excess-unwanted material containing >100 nCi's/g transuranic isotopes which have a defense pedigree and are eligibility at the WIPP. An example would be a Pu-239/Be neutron source resulting from the decommissioning of a nuclear submarine from Naval Reactors (NR).

6. TRU - Non-defense, Accepted for Storage: Sealed sources and perhaps other excess-unwanted material containing >100 nCi's/g transuranic isotopes which are DOE-owned and have been accepted for management under OSR, but which do not meet the eligibility criteria for WIPP and for which disposal options are not currently available. An example would be a Pu-239/Be neutron source received from a DOE site after having been used programmatically by the Office of Nuclear Energy (NE).

7. TRU - Non-defense, Disposal: Sealed sources and perhaps other excess-unwanted material containing >100 nCi's/g transuranic isotopes which are DOE-owned and have been accepted for management under OSR, but which do not meet the eligibility criteria for WIPP. An example would be a Pu-239/Be neutron source received from a DOE site after having been used programmatically by the Office of Nuclear Energy (NE).

Project Status in FY 2006:

The Off-Site Source Recovery-Defense (OSR-D) Project as planned will be completed by the year 2010. By the end of 2006 the following milestones will have been achieved:

- 1) All currently identified off-site waste recovery actions will have been completed.
- 2) All legacy DOE contracts and agreements requiring recovery of radioactive material and close-out will have been completed.
- 3) Infrastructure will be in place to permit acceptance and management of radioactive material or sealed sources from other DOE sites on a case by case basis, supported by program transfer of funds.
- 4) Between 2003 and 2006, work will be conducted as a subpart of PBS AL-RSRP/LANL.

Post-2006 Project Scope:

The OSR-D Project has been planned to reach its end state in the year 2010. Between 2006 and 2010, work will be conducted as a sub part of PBS AL-RSRP/LANL with funds provided as program transfers from DOE sites needing assistance in disposition of excess sealed source materials.

Project End State

At the close of the OSR-D Project in 2010, the following conditions will prevail:

1. All radioactive sealed source recovery and recycle operations will have been completed sufficient to reduce all significant risk and liability to DOE from off-site legacies.
2. Greater Than Class C (GTCC)-like disposal capability for sealed sources material will have been made available in sufficient volume to address disposal needs for excess and unwanted sealed sources from around the DOE complex such that routine consolidation and transfer to disposal will be

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provided by others.

Cost Baseline Comments:

The cost estimates provided are based on a reasonable transition from past and ongoing activities previously funded under Defense Program (DP) B&R DP0405503. A fully operational OSR-D Project has been formulated to begin in FY-2000 at the target levels. If the FY-2000 targets are not realized, a contingency amount will need to be added and applied over the 2001 and 2002 period or direct funding of the project could be extended past the current planned final funding year of 2002.

Safety & Health Hazards:

Public Safety & Health: Significant quantities of DOE legacy radioactive material and sealed sources currently exist off-site, outside of direct DOE control. While most of this material is appropriately managed, there exists the potential for mismanagement which could result in a radiological incident with potential DOE liability. Expeditious conduct of the OSR-D Project can minimize and in a reasonable time eliminate those risks.

Site Personnel Safety & Health: The largest hazard associated with the recovery of legacy radioactive materials and sources recoveries to DOE sites comes from potential exposure to workers from materials when received. However, DOE orders and operational site controls and procedures assure that such exposures will kept to a minimum. When excess neutron sources and other actinide bearing sealed sources are accepted from around the DOE complex, they reduce future dose to workers at the custodial sites. When consolidated into highly shielded multi-function containers and placed in safe compliant storage areas at LANL, the consolidation minimizes the total number of drums required in storage (<160 drums containing neutron sources are anticipated during the life of the program). Typically a contact dose rate of <50mrem/hr is expected from neutron source drums. These drums will be placed in a geometry at the storage site such that added portable shielding can be used to further reduce the potential of worker exposures.

Remote handling and robotic technologies will be utilized for consolidation and assay processes conducted at LANL in order to reduce personnel exposures throughout the life of the program.

Specific health and safety documentation currently at LANL which address operations include:

TA-54 SAR

TA-50 SAR

Safety & Health Work Performance:

Work performance is controlled through the authorization basis for existing and new operational activities at LANL's BUS-4, TA-54 and TA-50 facilities.

PBS Comments:

Baseline Validation Narrative:

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This program will be validated by EM-36 based on recovery priorities developed in consultation with EM-60, Naval Reactors (NR) and specific DOE and DOD facilities holding excess and unwanted sealed source material.

General PBS Information

Project Validated?

Date Validated:

Has Headquarters reviewed and approved project?

No

Date Project was Added:

Baseline Submission Date: 7/1/1999

FEDPLAN Project? No

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	N	N	Y	Y	N	Y	Y	Y

Project Identification Information

DOE Project Manager: Joel Grimm

DOE Project Manager Phone Number: (505) 845-5463

DOE Project Manager Fax Number: (505) 845-6286

DOE Project Manager e-mail address: jgrimm@doeal.gov

Is this a High Visibility Project (Y/N):

Planning Section

Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
PBS Baseline (current year dollars)	11,109	0	11,109	1,800	1,800	1,737	1,737	1,738	1,834	2,000	2,000	0	0	0	0
PBS Baseline (constant 1999 dollars)	10,836	0	10,836	1,800	1,800	1,737	1,737	1,738	1,786	1,907	1,868	0	0	0	0

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Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS EM Baseline (current year dollars)	7,572	0	7,572	0	0	0	0	1,738	1,834	2,000	2,000	0	0	0	0	
PBS EM Baseline (constant 1999 dollars)	7,299	0	7,299	0	0	0	0	1,738	1,786	1,907	1,868	0	0	0	0	
	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Non-EM Costs included in the Cost Baseline

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Non-EM Category: Other													
Defense Programs	100	100											
	2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
Non-EM Category: Other													
Defense Programs													

Baseline Escalation Rates

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1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.70%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project:

Current Projected End Date of Project: 12/30/2002

Explanation of Project Completion Date Difference (if applicable):

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	Actual 1997 Cost:	0	Actual 1998 Cost:	0
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	0	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):		0
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	0			

Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):	10,931	New program transferred to EM from DP in 1999. Scope added. See Budget Narrative.
Cost Growth Associated with Scope Previously Reported (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	10,931	

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Project Reconciliation

Additional Amount to Reconcile (+): -3,632

Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): 7,299

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Waste Stream Segregation Planning			9/30/1999								
Consolidation Operations			9/30/2000								
Waste Characterization and Certification			4/30/2001								
OSR-D Project - Completion			9/30/2010							Y	
Sr-90 RTG Storage			7/1/2000								
WIPP Shipping Schedule			9/30/2001								
Establish charge back program			4/30/2002								
Self Supporting Program			12/30/2002								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Waste Stream Segregation Planning											Initiate waste stream segregation plan for defense and non-defense materials accepted under the OSR Project.
Consolidation Operations				Y							Initiate operations to consolidate DOE-owned sealed source materials held in storage into multifunction containers.
Waste Characterization and Certification											Initiate waste characterization and certification operations for DOE-owned sealed sources held in

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
OSR-D Project - Completion											consolidated storage.
Sr-90 RTG Storage											Completion of the Off-site Source Recovery Defense (OSR-D) Project
WIPP Shipping Schedule											Establish Sr-90 RTG storage capability
Establish charge back program											Establish shipping schedule for WIPP eligible consolidated sealed sources held in storage.
Self Supporting Program					Y	Y					Establish charge back program to support source acceptance from within the DOE complex.
											Achieve self supporting program status from charge back system.

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
TRU														
Storage	M3									1.00	5.00	17.00	34.00	38.00
TRU														
Disp. At WIPP	M3	0.00	0.00	0.00	0.00		0.00							
TRU														
Ship. to WIPP	M3	0.00	19.40	19.40	0.00		0.00							
MLLW														
Storage	M3								8.00					

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Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
MLLW														
On-Site Disp.	M3	0.00	0.00	0.00	0.00		0.00							
MLLW														
TBD Disp.	M3	8.00	0.00	8.00						8.00				
LLW														
Storage	M3										6.00	7.00	8.00	9.00
LLW														
On-Site Disp.	M3	7.00	0.00	7.00	0.00		0.00			1.00	1.00	1.00	1.00	1.00
LLW														
TBD Disp.	M3	10.00	0.00	10.00							0.00	0.00	0.00	0.00
Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035	
TRU														
Storage	M3	38.00	41.00	11.40										
TRU														
Disp. At WIPP	M3													
TRU														
Ship. to WIPP	M3				13.40	2.00	2.00	2.00						
MLLW														
Storage	M3													
MLLW														
On-Site Disp.	M3													

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Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
MLLW													
TBD Disp.	M3												
LLW													
Storage	M3	9.00	10.00	0.00									
LLW													
On-Site Disp.	M3	1.00	1.00	1.00									
LLW													
TBD Disp.	M3	0.00	0.00	10.00									
Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total			
TRU													
Storage	M3												
TRU													
Disp. At WIPP	M3									0.00			
TRU													
Ship. to WIPP	M3									19.40			
MLLW													
Storage	M3												
MLLW													
On-Site Disp.	M3									0.00			
MLLW													
TBD Disp.	M3									8.00			
LLW													
Storage	M3												

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Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total
LLW										
On-Site Disp.	M3									7.00
LLW										
TBD Disp.	M3									10.00